

# UNIQUE IDENTIFICATION (UID)



## **Unique Identification (UID) Data Capture**



# Agenda

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- ◆ Introductions
- ◆ UID Overview
  - What is UID
  - What is the Strategy for Capturing UID
  - Expected Timeline
- ◆ Break Out Session (Pedigree Data Elements)
- ◆ Create a Consolidated List of Data Elements
- ◆ Review TIWG Work Item List
- ◆ Next Steps
  - Review Action Items
  - Revisit Expected Timeline
  - Set Time and Date for Next Meeting



# What is Unique IDentification (UID)?

UID is . . .

. . . the set of data for assets that is globally unique and unambiguous, ensures data integrity and data quality throughout life, and supports multi-faceted business applications and users.

**Enterprise ID (EID)**

194532636



**Serial Number**

786950



**Original Part Number**

1234





# How is the UID Constructed?

## ◆ 2 UID Construction Options<sup>1</sup>

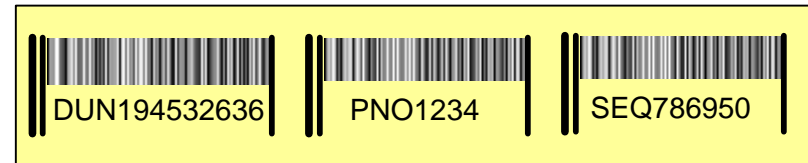
**UID Construct #1<sup>2</sup>**



EID

Serial No.

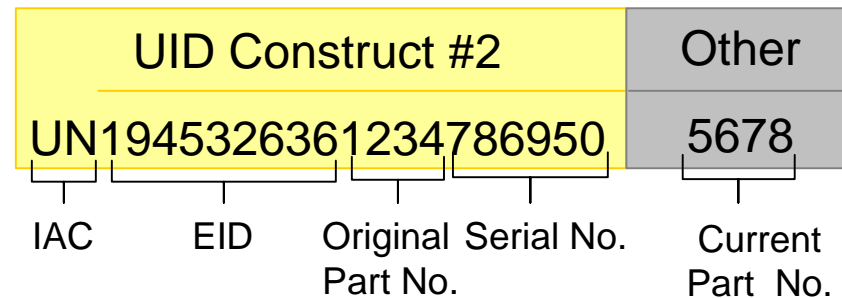
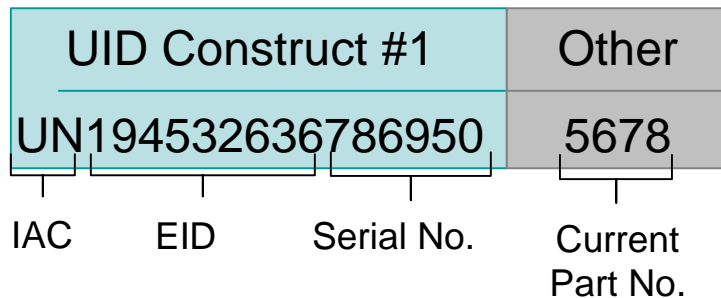
**UID Construct #2<sup>2</sup>**



EID

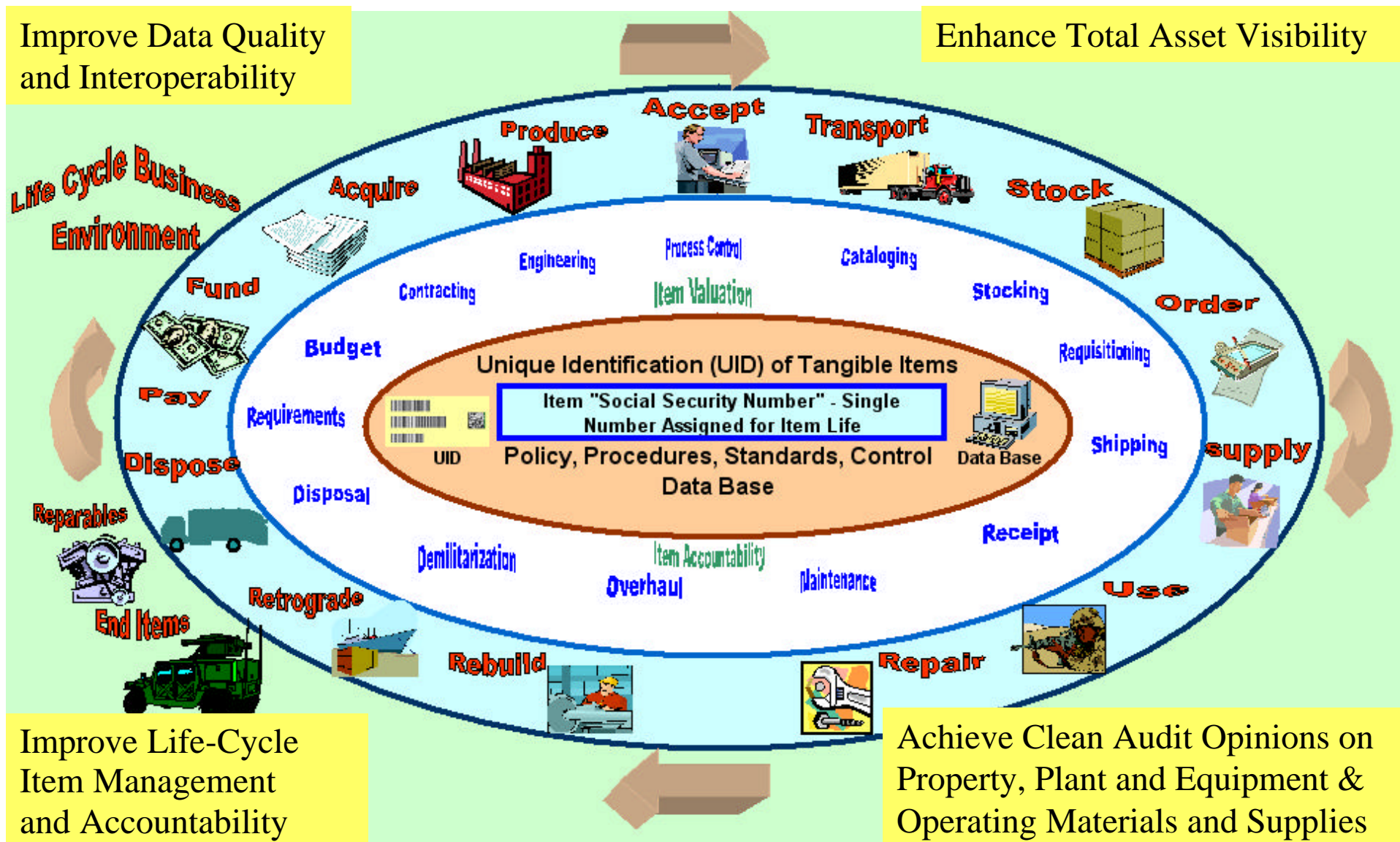
Original  
Part No.

Serial No.



<sup>1</sup> This example uses Text Element Identifiers. EID is a Duns number and the Duns issuing agency code is UN.

<sup>2</sup> Linear bar codes are used for demonstration only, 2-D data matrices are required for UID construction.





# The Use of UID – Acquisition

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- ◆ Birth
  - Acquisition drives the requirements and capture phases of the UID from the vendor (in compliance with the DFARS rule)
- ◆ Change of Life
  - Increases the capability for just-in-time replenishment and more accurate restocking
- ◆ Termination
  - Enables more accurate reporting on item life cycle and performance
  - Increases ability to deter fraud
- ◆ Establishes a metric for implementing performance-based contracting with vendors
- ◆ Highlights areas where DoD can benefit from aggregate purchasing and implement acquisition process improvements



# The Use of UID – Logistics

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- ◆ Enables comprehensive, timely data about each uniquely identified item throughout the supply chain
  - Generation, collection and analysis of maintenance data
  - End-to-end tracking and traceability of unique items
  - Reliability and maintainability information on each item throughout its life cycle
- ◆ Improves supply chain efficiency
  - Reduces administrative costs
  - Reduces stock levels
  - Provides simple, reliable, standardized, real-time, automated data capture and electronic information exchange
- ◆ Integrates transportation and movement of individually identified items
- ◆ Leverages commercial technologies and practices



# The Use of UID – Finance

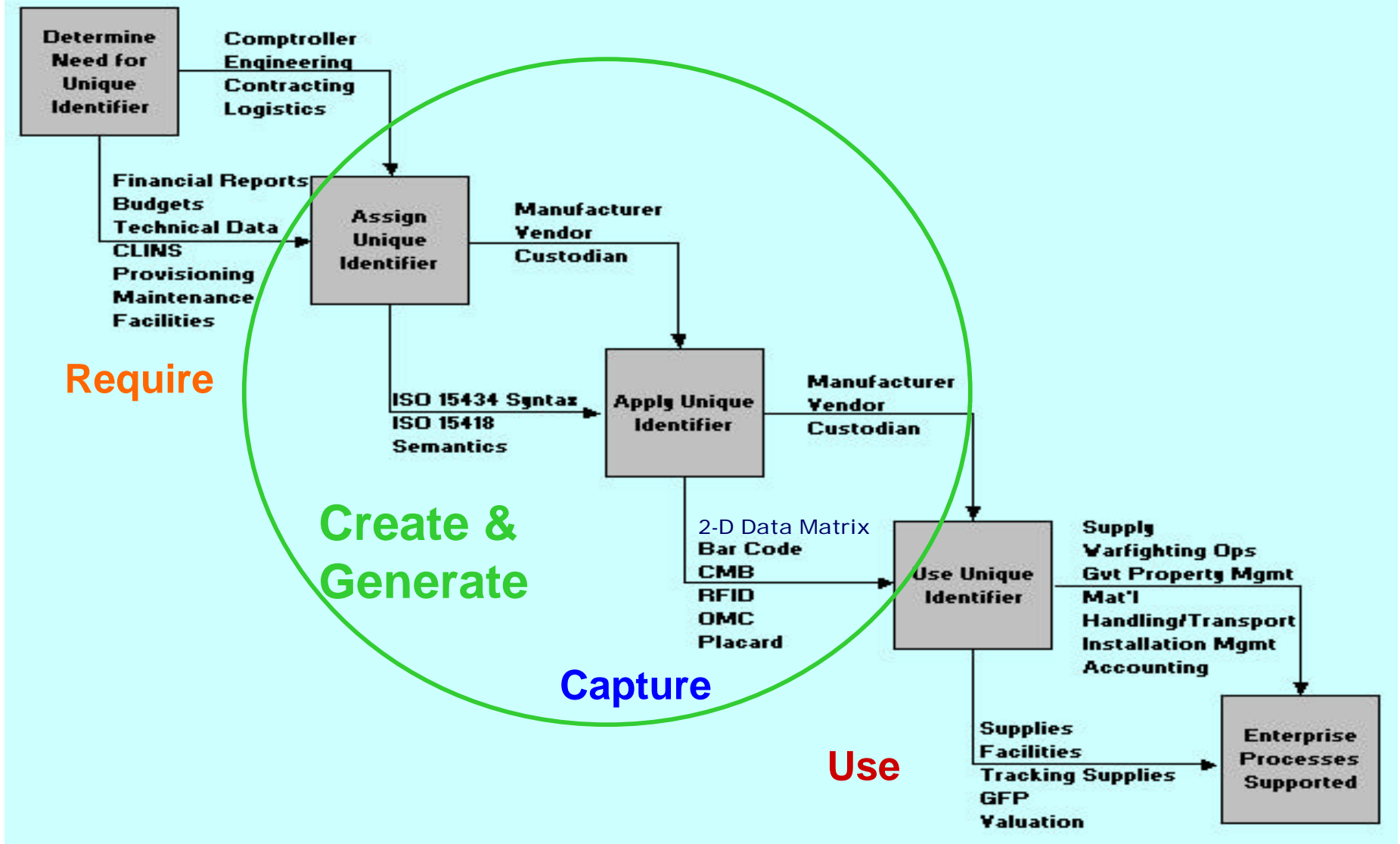
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- ◆ Enables clean audit opinions on Property, Plant and Equipment as well as Operating Materials and Supplies
- ◆ Improves life-cycle item management and accountability
- ◆ Increases data quality, integrity, and interoperability



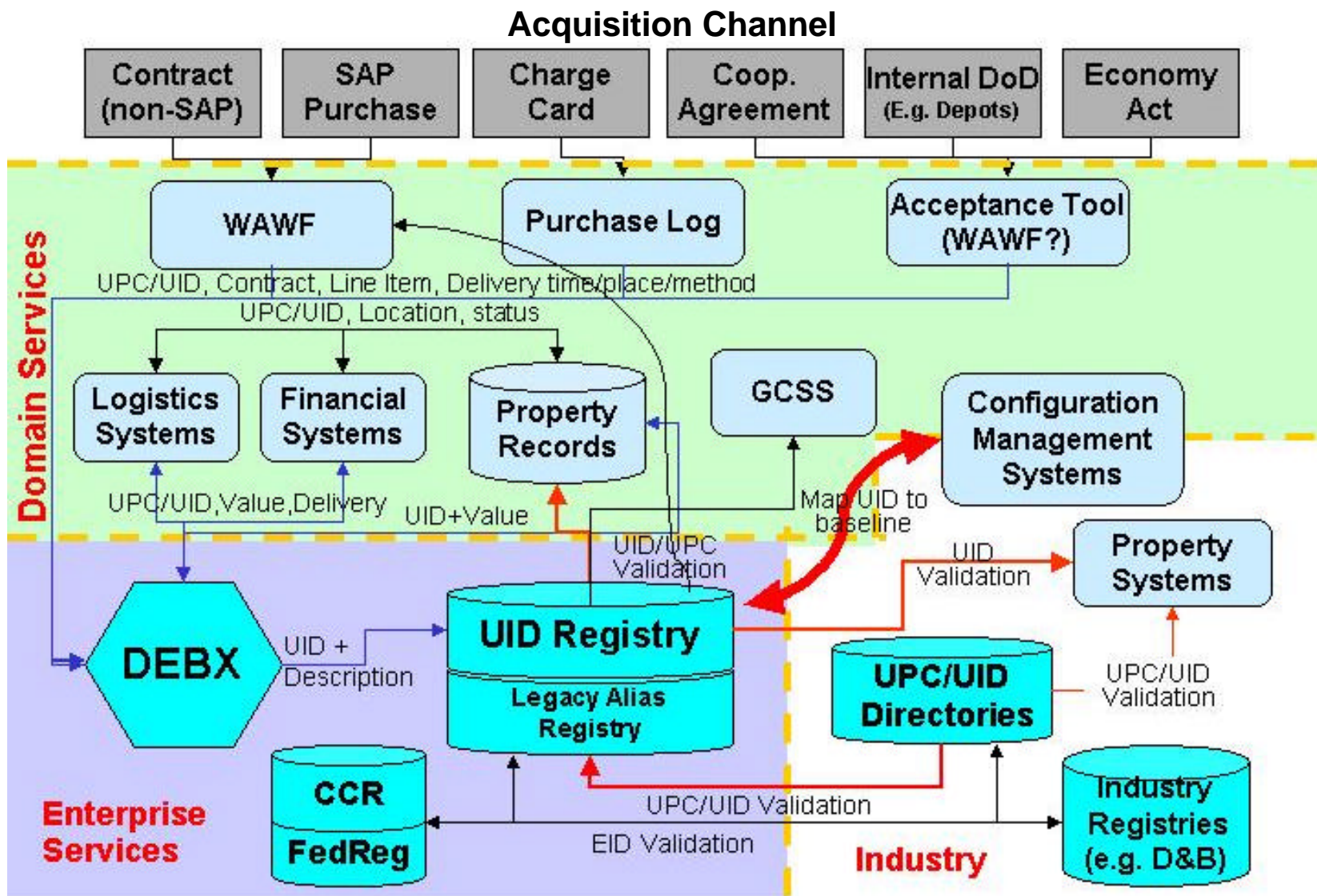


# Who Creates the UID?



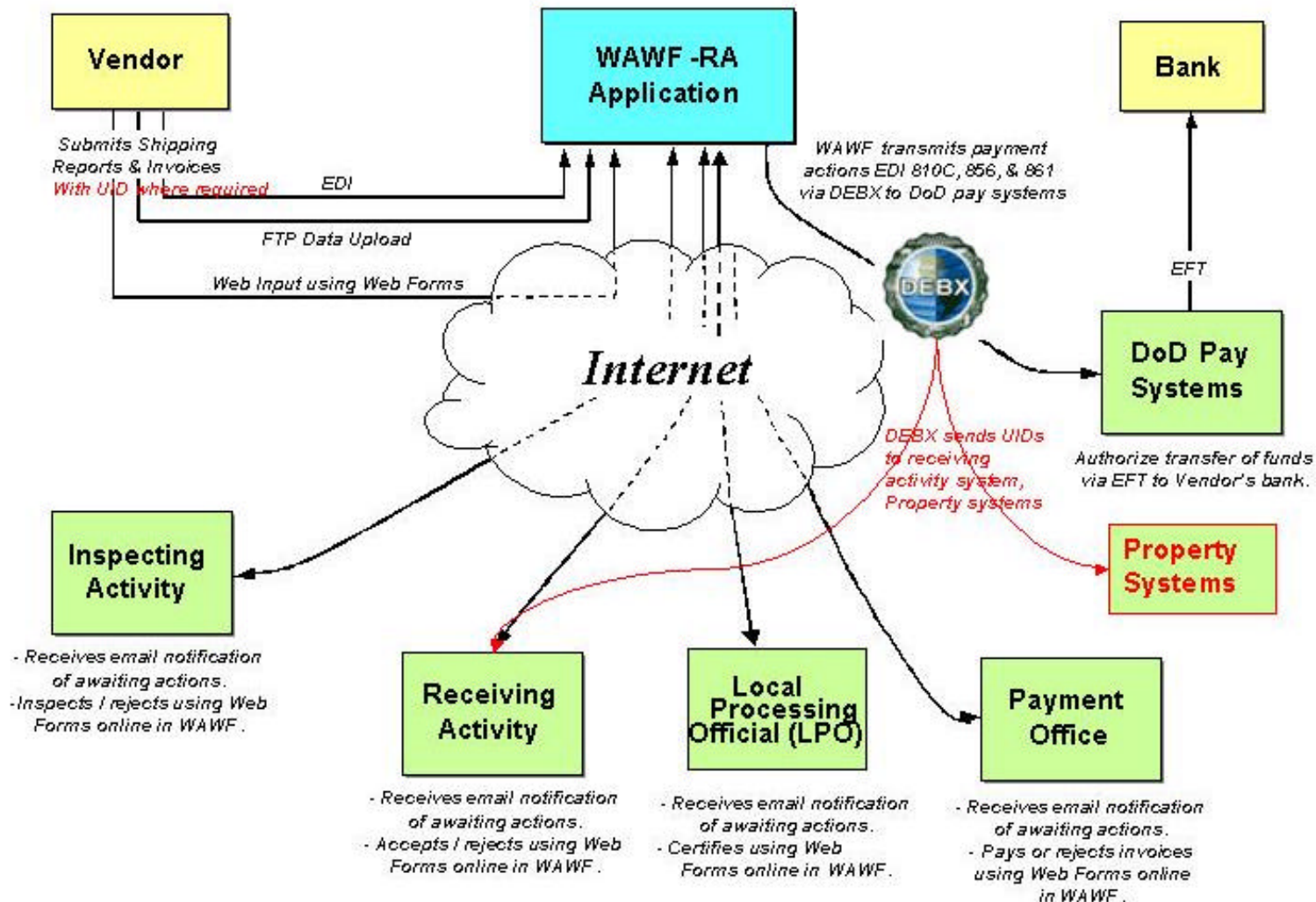


# UID Capture – What It Is



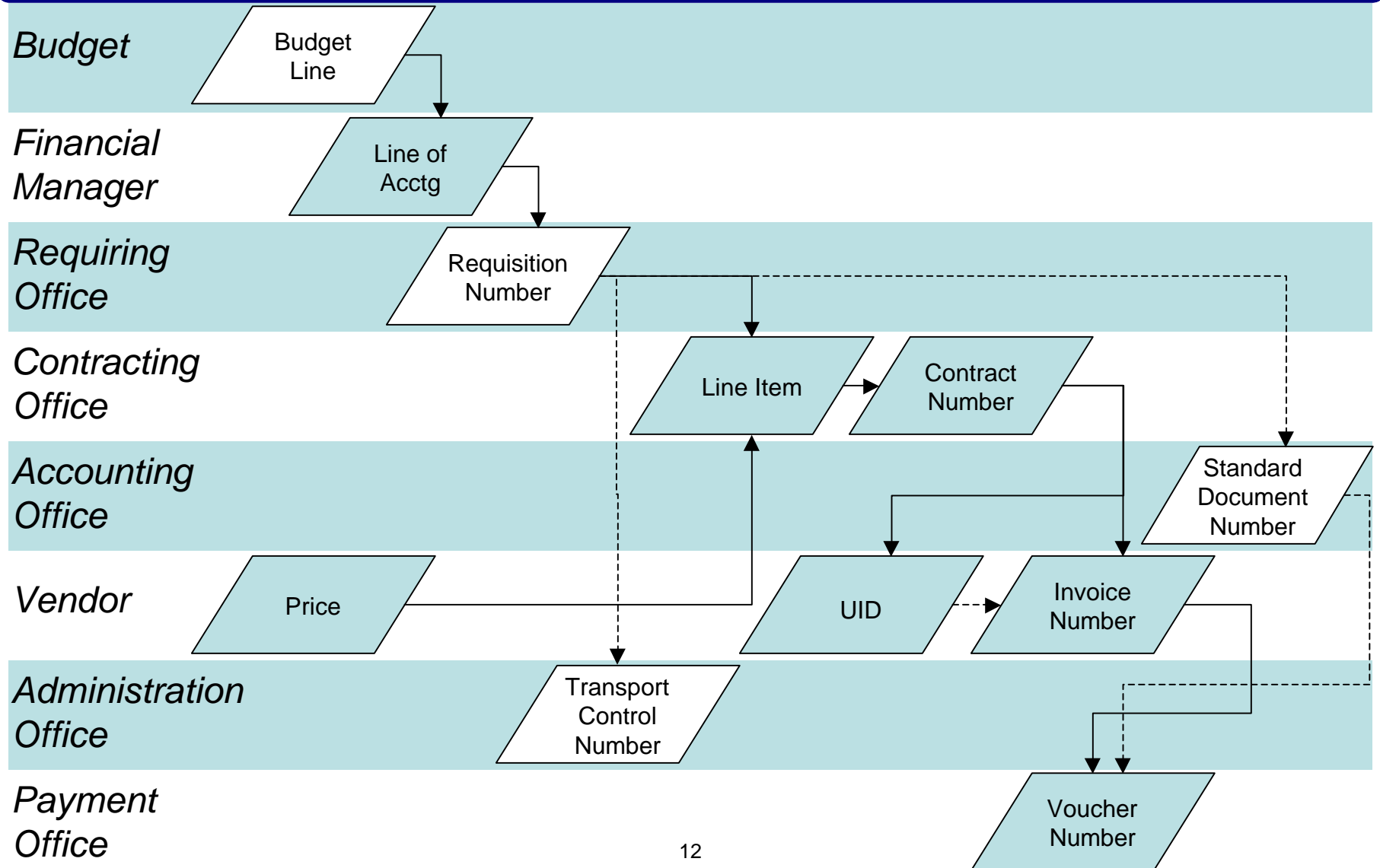


# UID Capture and Use – What It Is





# Contract Data Genealogy





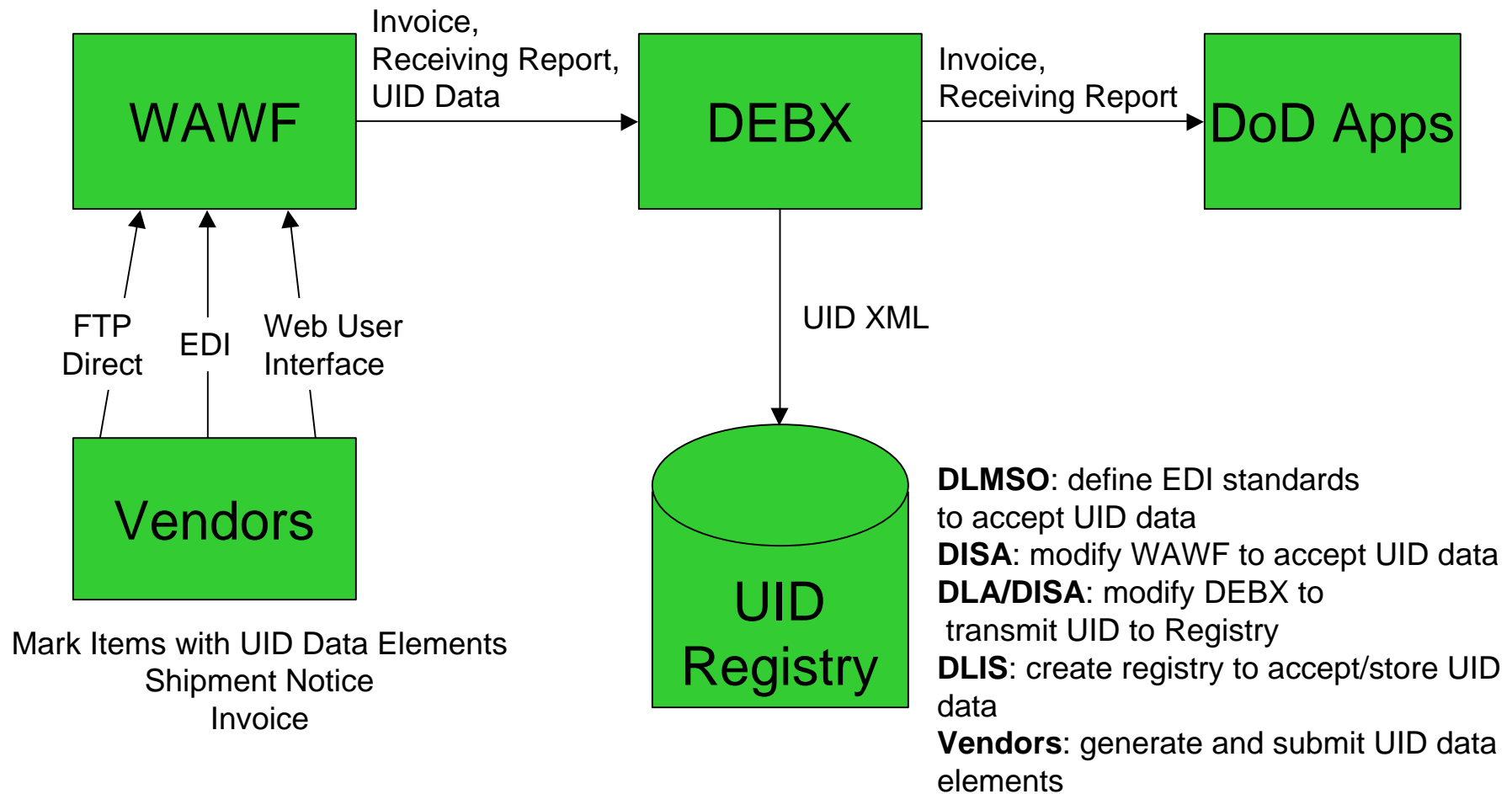
# Demonstrating Capture and Reuse

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- ◆ Likely pilots
  - Boeing
  - Lockheed Martin
- ◆ Proof that UID data can be:
  - Generated by vendors
  - Submitted by vendors
  - Captured in WAWF
  - Transmitted to a central registry



# Capture and Use – How It Works







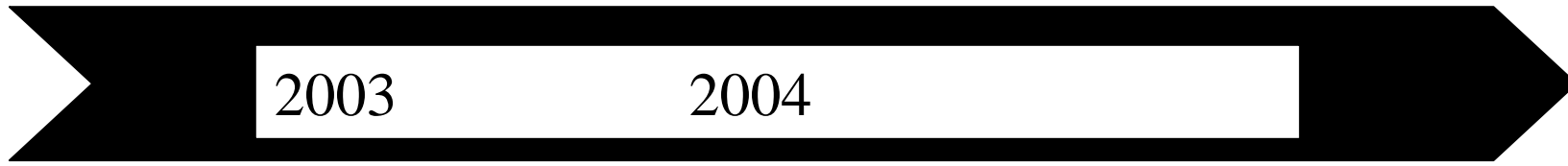
# Partnership of Stakeholders

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# Expected Timeline



OCT	NOV	DEC	JAN	FEB	MAR	APR
Requirements Defined	Design Solution Engage Vendors	Development	Development	Unit Test	Integration	Dry Run
				Point-to-Point Test	End-to-End Test	IOC
	WAWF DEBX	WAWF DEBX Repository	WAWF DEBX Repository	WAWF DEBX Repository		





# The Concept of Pedigree

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- ◆ Pedigree is . . .
  - A chart of an individual's ancestors used in human genetics to analyze inherent traits<sup>1</sup>
- ◆ UID Item Pedigree is . . .
  - Characteristics of an item that are present at creation
  - Permanent over the life of the item
  - Cannot be altered or removed over the life of the item

<sup>1</sup> Webster's Dictionary (paraphrased)



# Break Out Session

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- ◆ Create a list of data elements that should be part of the UID Registry
- ◆ Data elements need to comply with the pedigree boundaries:
  - Present at creation
  - Permanent over the life of the item
  - Cannot be altered or removed over the life of the item



# Data Element Comments/Issues

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- ◆ Who are the users of UID registry?
- ◆ Why do we need any elements in the UID Registry except core UID data elements such as:
  - UID Concatenated
  - Enterprise Identifier (EID)
  - Original Part Number
  - Serial Number
  - Issuing Agency Code (IAC)
  - UID Type (e.g., Construct 1, Construct 2, VIN, GIAI, GRAI)
- ◆ What should be the UID Registry data element that tells the user where to find more data about the item?
  - Ship-to Code does not provide a good enough link
  - Acceptance Location Code?
  - Transportation Control Number?



# Data Element Comments/Issues

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- ◆ There is currently no useful contract data in a database
  - Does this deficiency mean we should store contract data in the UID Registry? (Yes)
- ◆ How do you accept an item that does not have a formal DD250 acceptance process?
  - For example, what about sub-components of an end item that are repaired and replaced – they will have no entry in the UID Registry (This item is not an immediate concern – defer to Phase 2)
- ◆ How do you allocate costs of intangibles (ie data) in the context of UID? (This question has been referred to accounting for resolution)



# Data Element Comments/Issues

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- ◆ Standard Document Number (Needs some investigation for its tie to warranty, tying transactions 861, 856, and 527 together)
- ◆ Drawing Number (Needs engineering input)
- ◆ Lot and Batch Number (Revisit the need for a third UID construct in the business rules team meeting)
- ◆ Warranty Data (Defer this to another group that is responsible for capturing and tracking warranty, not currently required by DFARS – needs more investigation)



# Data Element Comments/Issues

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- ◆ Is the acquisition cost the price the government pays to the vendor or the price one government entity pays to another government entity (I.e., Services to DLA)? (UID Registry will capture cost from the original vendor, subsequent costs will be maintained by downstream buyers)
- ◆ What data elements are optional versus required? (More work needs to be done on this topic)
- ◆ Acceptance date: is DD250 an example or definition and do these definitions conflict with any other definitions for similar types of data? (Definitions will be researched and clarified by the TIWG)



# Data Element Comments/Issues

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- ◆ What is the purpose of keeping Unit of Measure in the UID Registry? (The exact need and/or use for this data may be more evident in the future)
- ◆ If a Program Manager creates the UID through re-serialization or data element reassignment (See business rule 28 and 30) does this deviation from the normal UID construction need to be captured? (The business rules team has determined it does not)
- ◆ How do you correct a UID if it enters the UID Registry incorrectly? (A business rule should be drafted to address this)



# Next Steps

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- ◆ Assign/Review Action Items
- ◆ Revisit Expected Timeline
- ◆ Set Time and Date for Next Meeting